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(71) Applicant:

NITGEN CO., LTD.

(72) Inventor:

KIM, JI HUN

MIN, GYEONG IL

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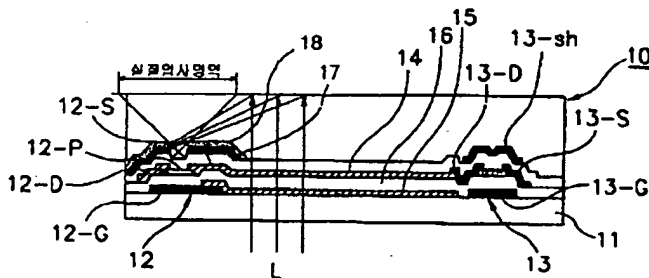
THIN FILM TRANSISTOR FINGERPRINT RECOGNITION SYSTEM HAVING OPTICAL SHIELD LAYER FORMED IN OPTICAL SENSOR

Representative drawing

(57) Abstract:

PURPOSE: A thin film transistor fingerprint recognition system having an optical shield layer formed in an optical sensor is provided to reduce a range of a ray projected to an optical sensor by forming an optical shield layer in a peripheral area except a ray incidence layer on a surface of the optical sensor.

CONSTITUTION: A ray shielding layer(17) is formed on a surface of an insulation layer over a drain(12-D) and a source(12-S) of an optical sensor(12). The ray shielding layer(17) of the optical sensor(12) can be formed by a non-permeability insulation film. A passivation(18) can be formed in an upper part of the ray shielding layer(17). If the passivation is formed in the upper part of the ray shielding layer(17), an edge is thicker.



Therefore, a substantial incident area is reduced.

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